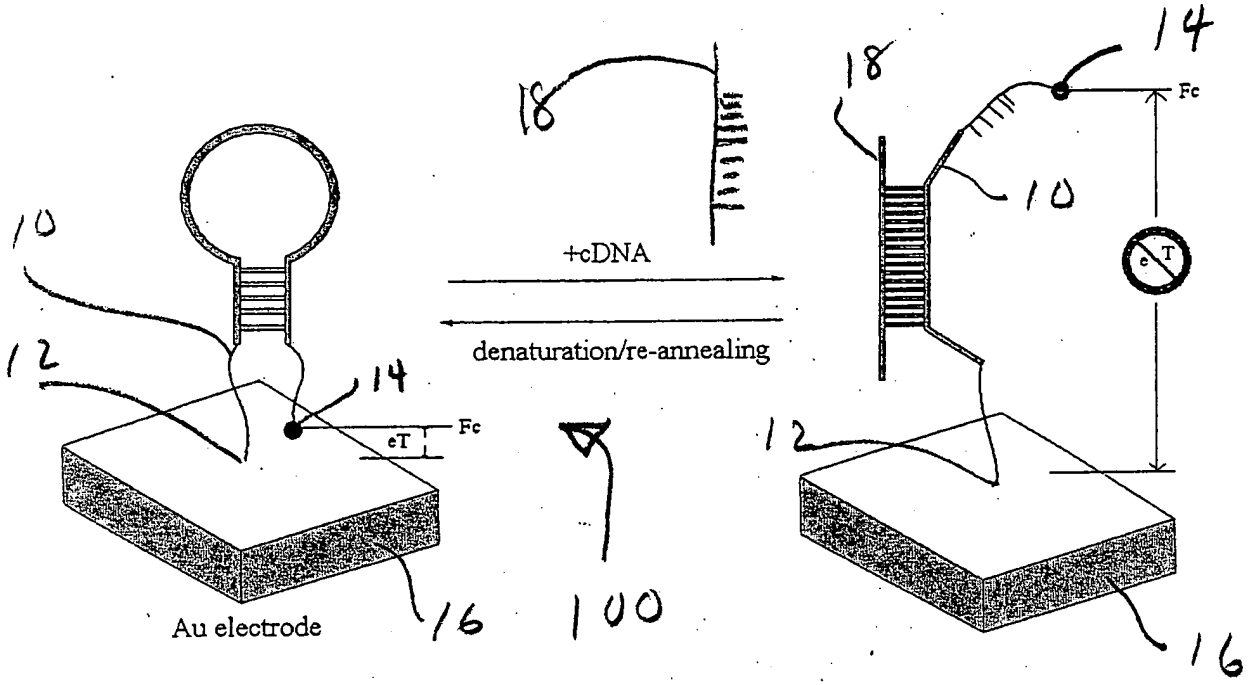
18
+cDNA
denaturation/re-annealing
10
12
14
Fc
eT
16
Au electrode
100

Fig 1

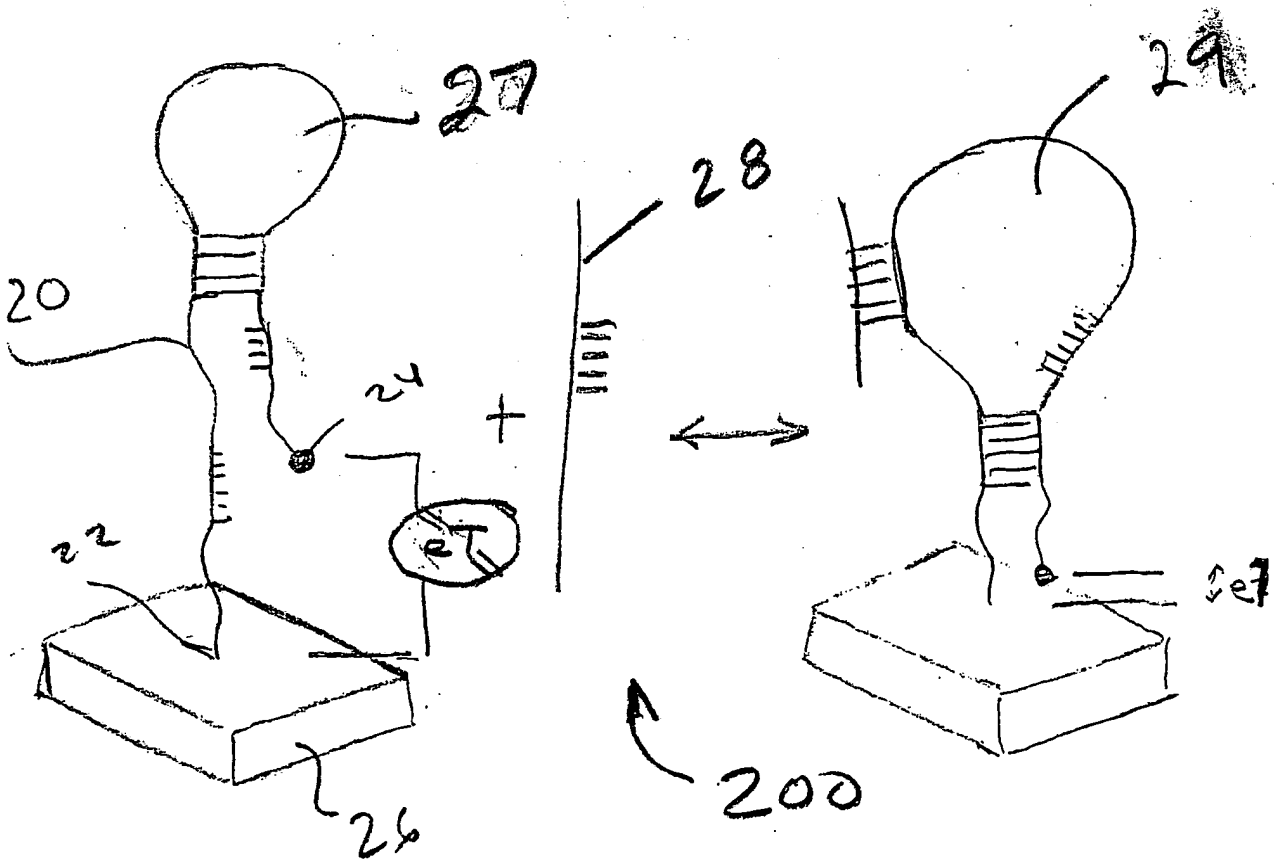
27
28
29
20
24
+
eT
22
26
200

Fig 2

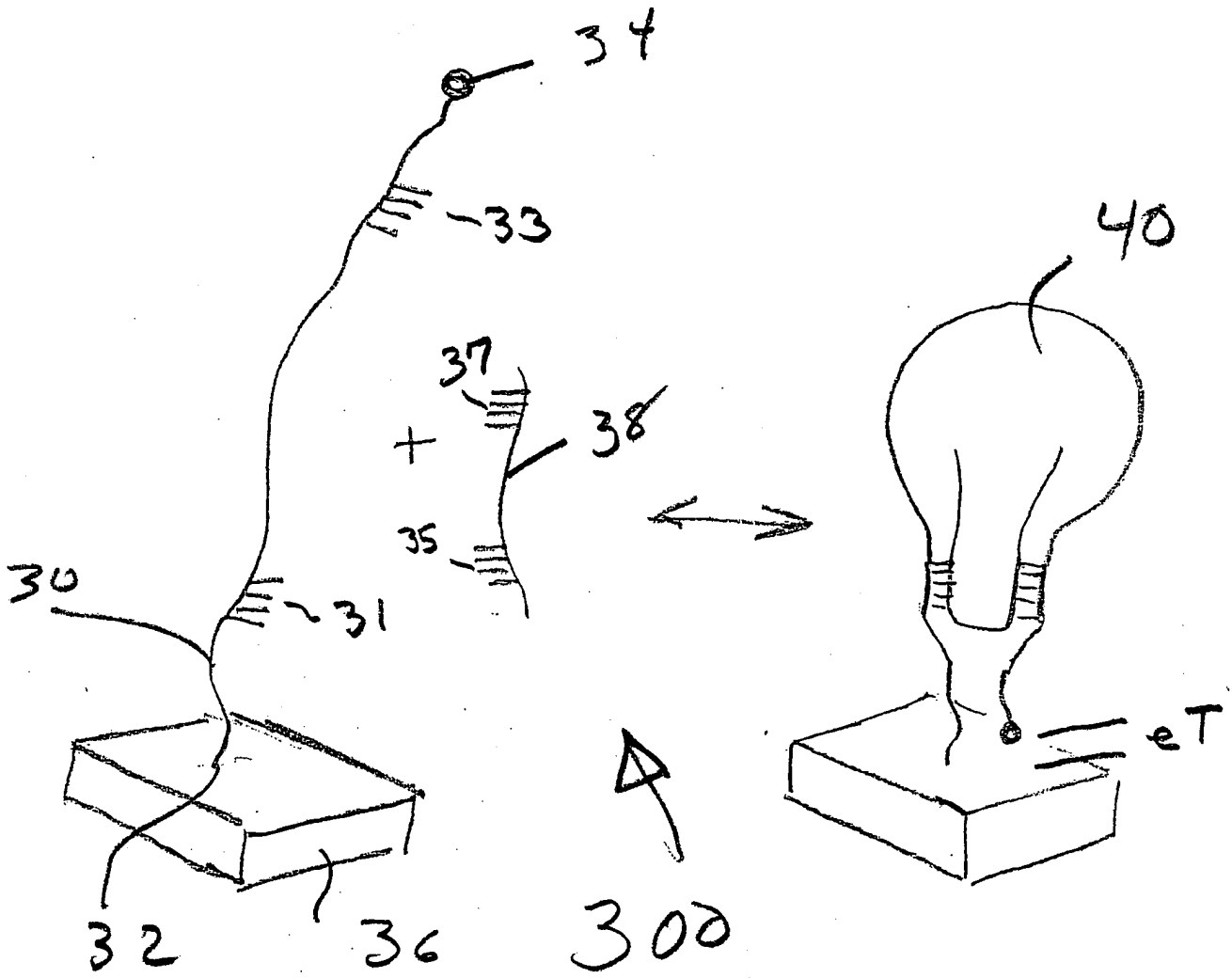

Fig 3

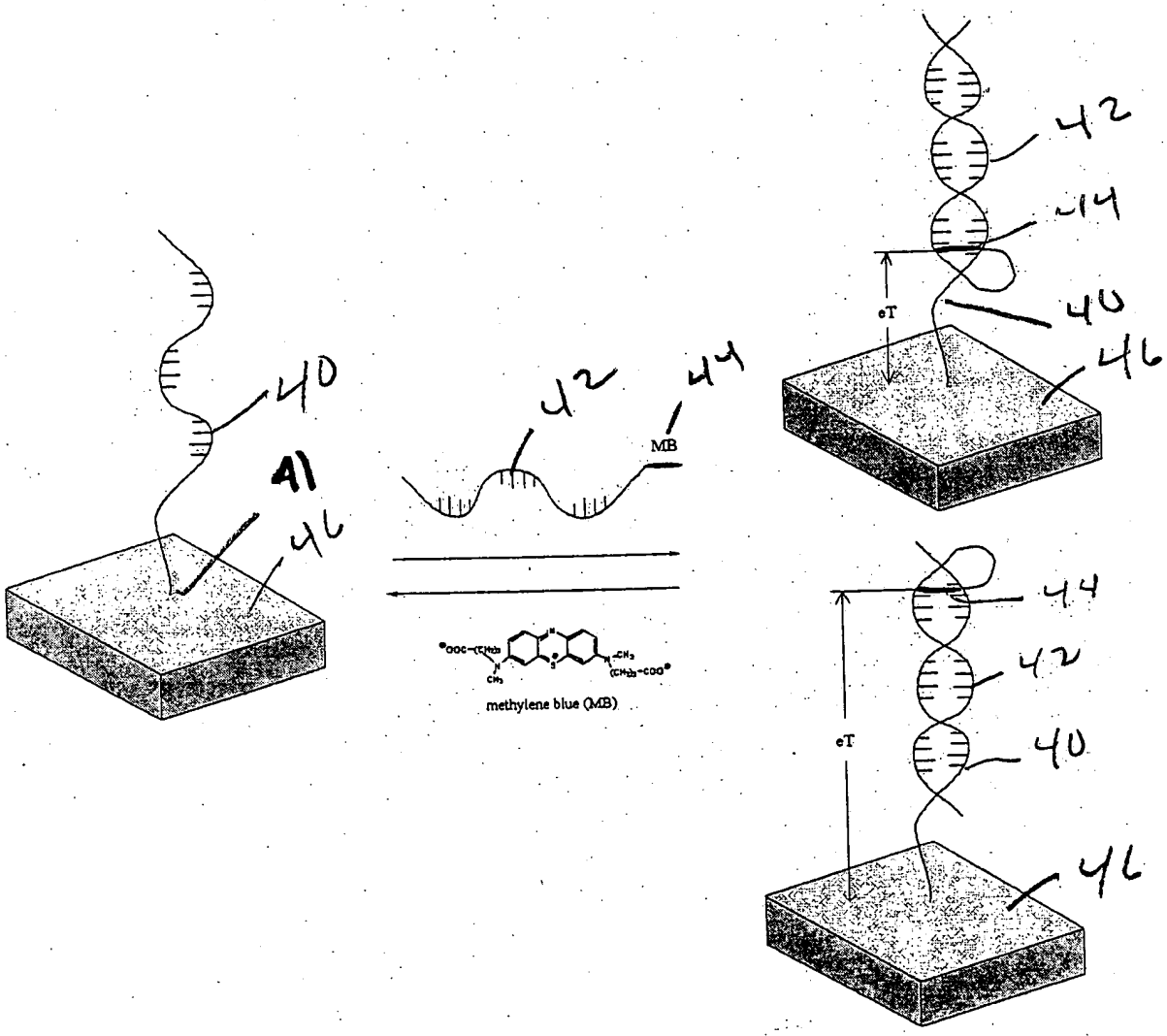

Fig. 4

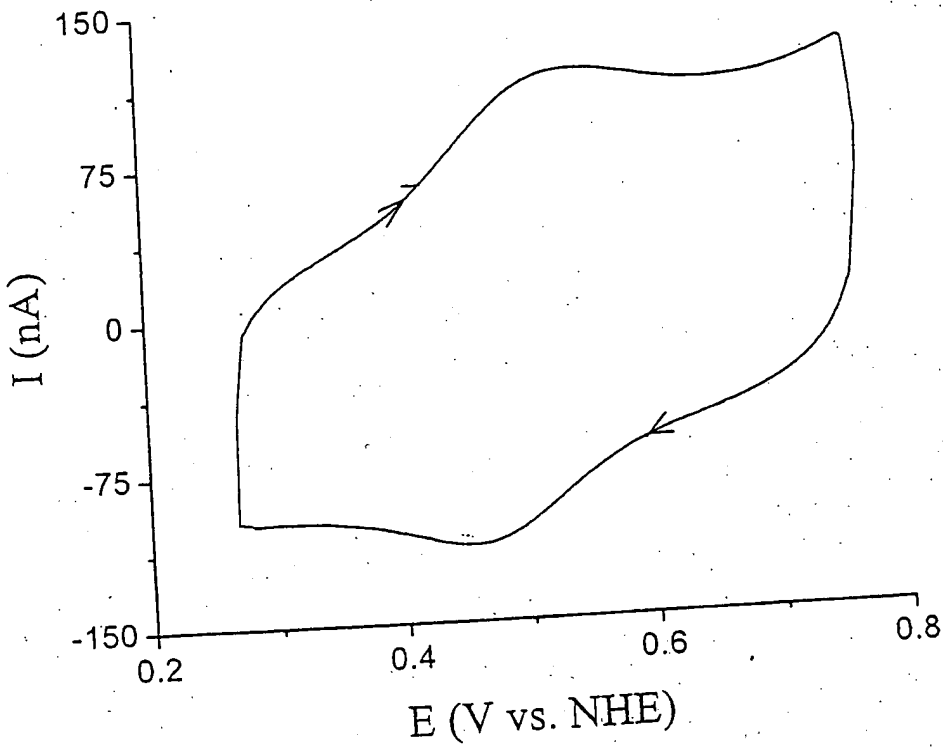
150
75
0
-75
-150
I (nA)
0.2
0.4
0.6
0.8
E (V vs. NHE)

Fig 5A

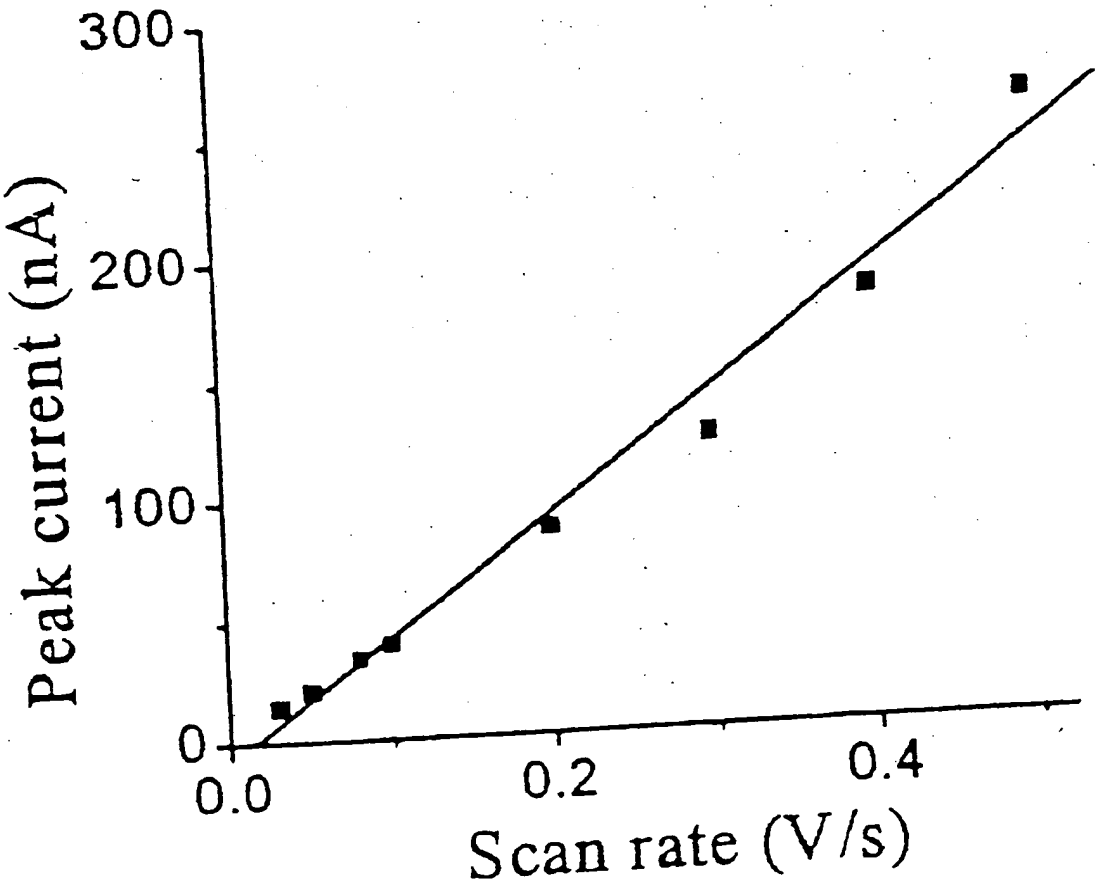
300
200
100
0
Peak current (nA)
0.0
0.2
0.4
Scan rate (V/s)

Fig 5B

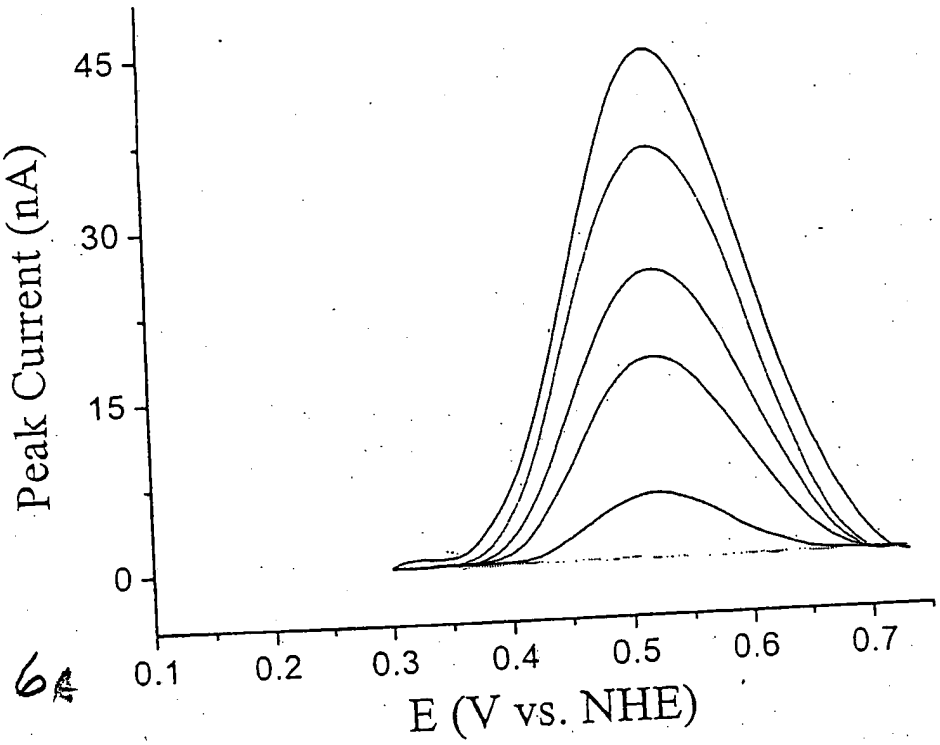
45
30
15
0
Peak Current (nA)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
E (V vs. NHE)

Fig 6A

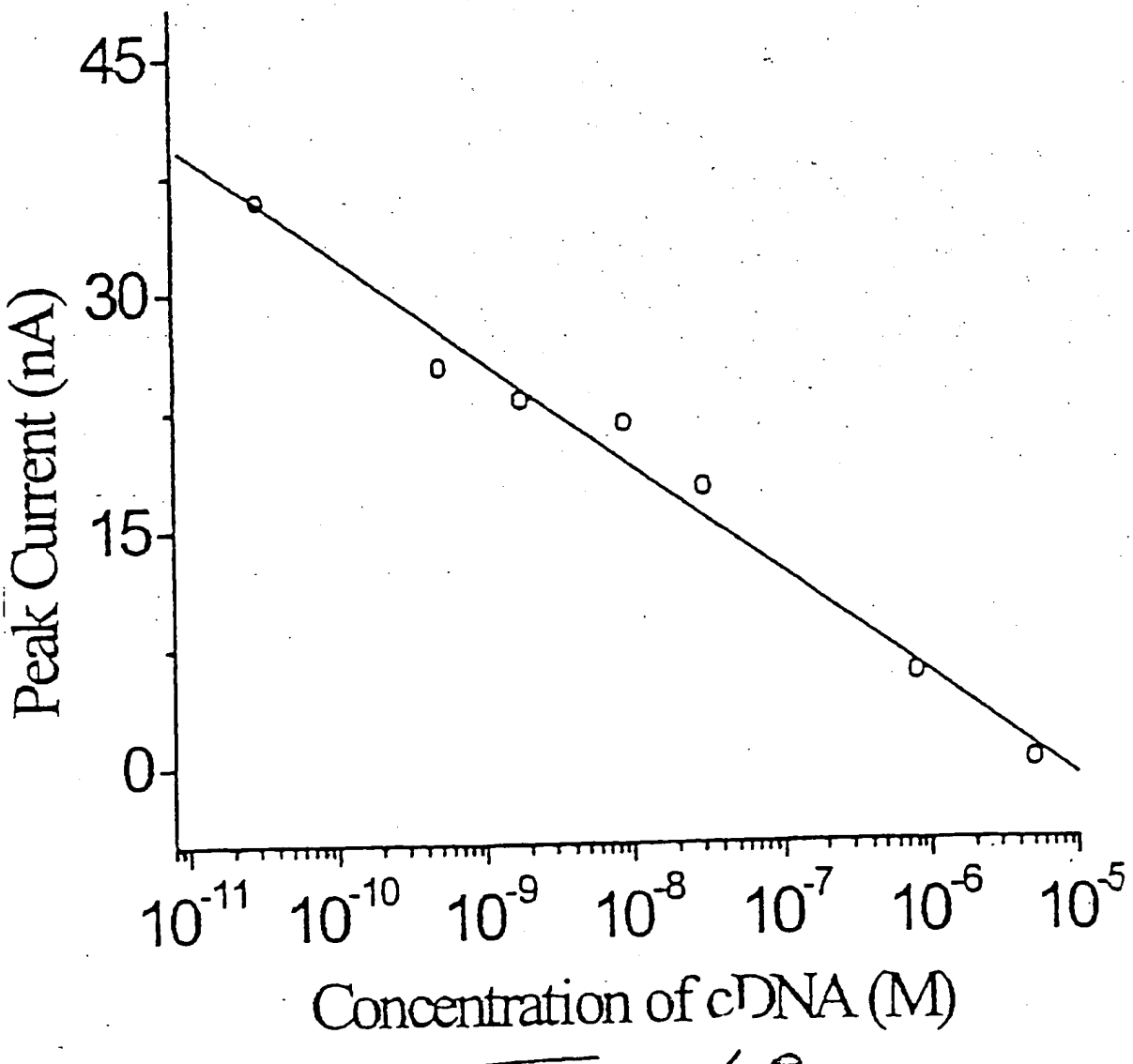
45
30
15
0
Peak Current (nA)
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Concentration of cDNA (M)

Fig 6B

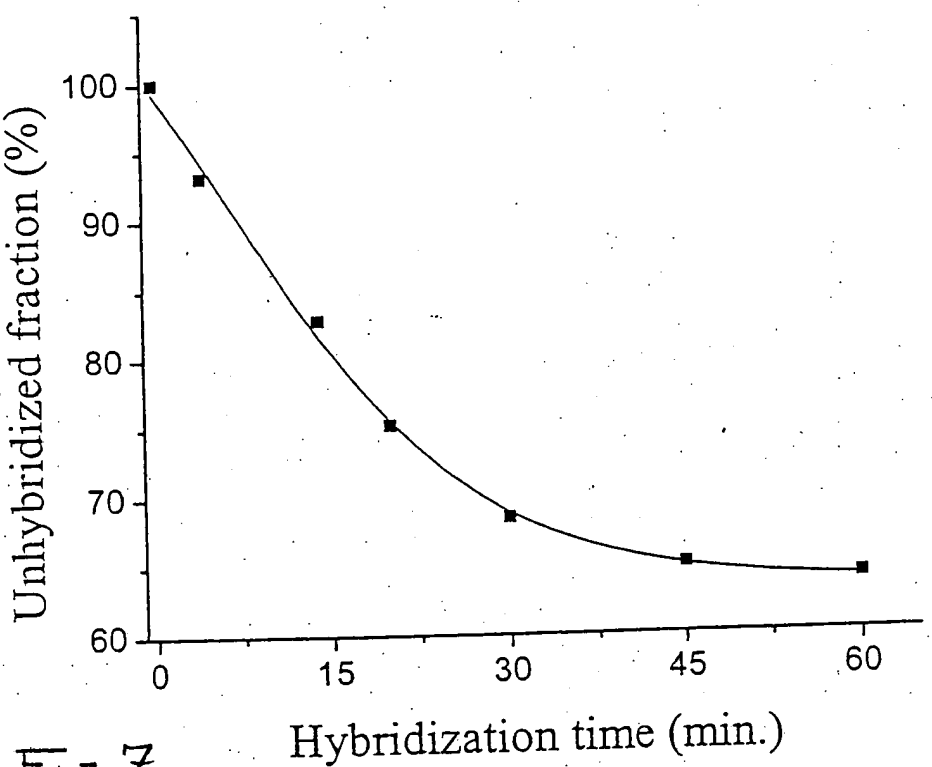
Unhybridized fraction (%)
100
90
80
70
60
0
15
30
45
60
Hybridization time (min.)

Fig 7

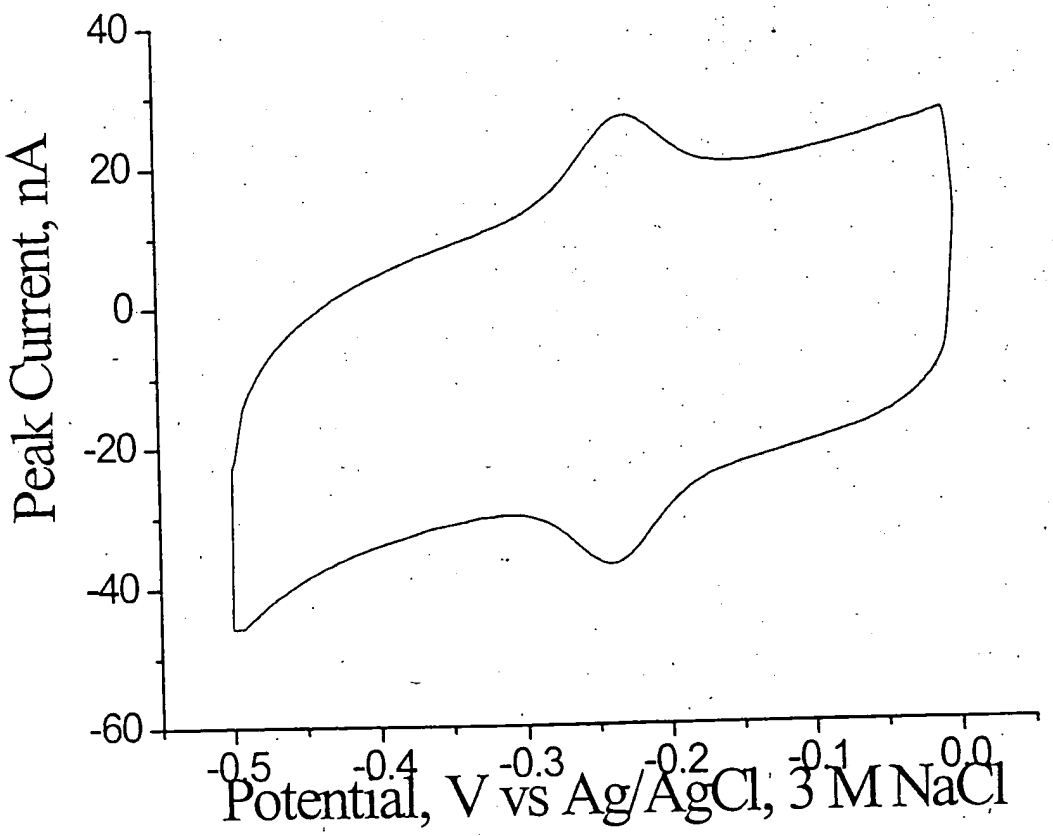
Peak Current, nA
40
20
0
-20
-40
-60
-0.5
-0.4
-0.3
-0.2
-0.1
0.0
Potential, V vs Ag/AgCl, 3 M NaCl

Fig 8

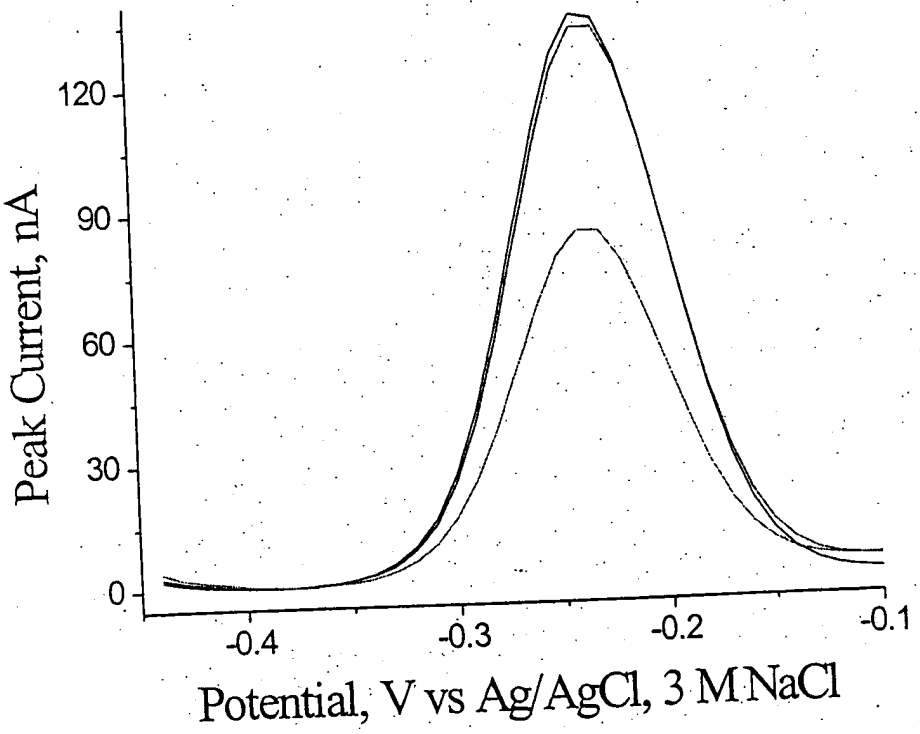
Peak Current, nA
120
90
60
30
0
-0.4
-0.3
-0.2
-0.1
Potential, V vs Ag/AgCl, 3 M NaCl

Fig 9

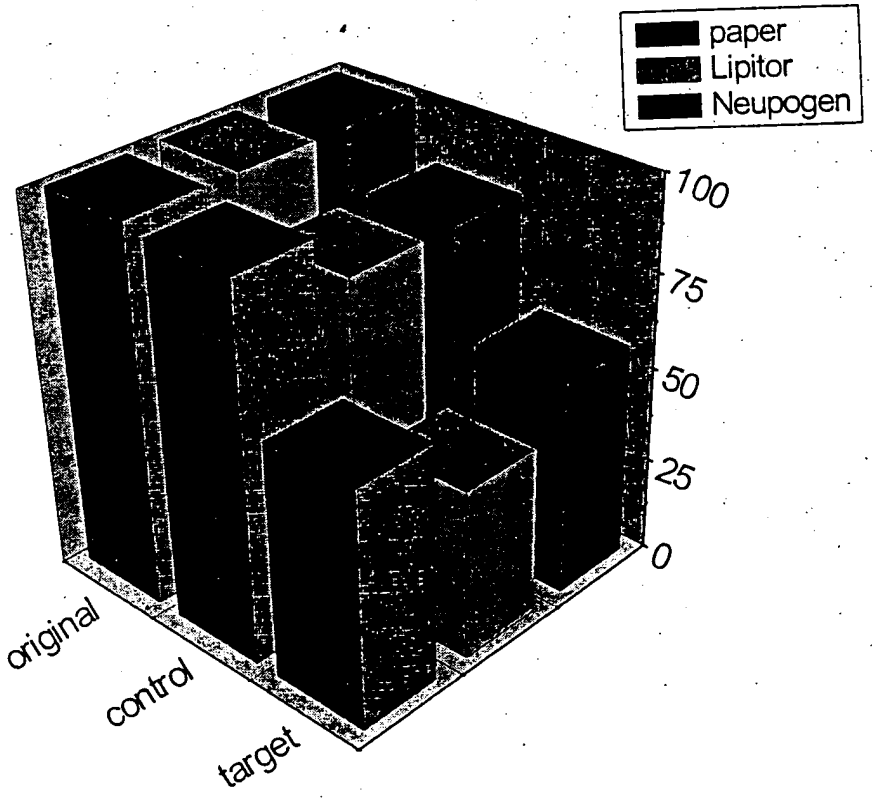
paper
Lipitor
Neupogen
100
75
50
25
0
original
control
target

Fig 10

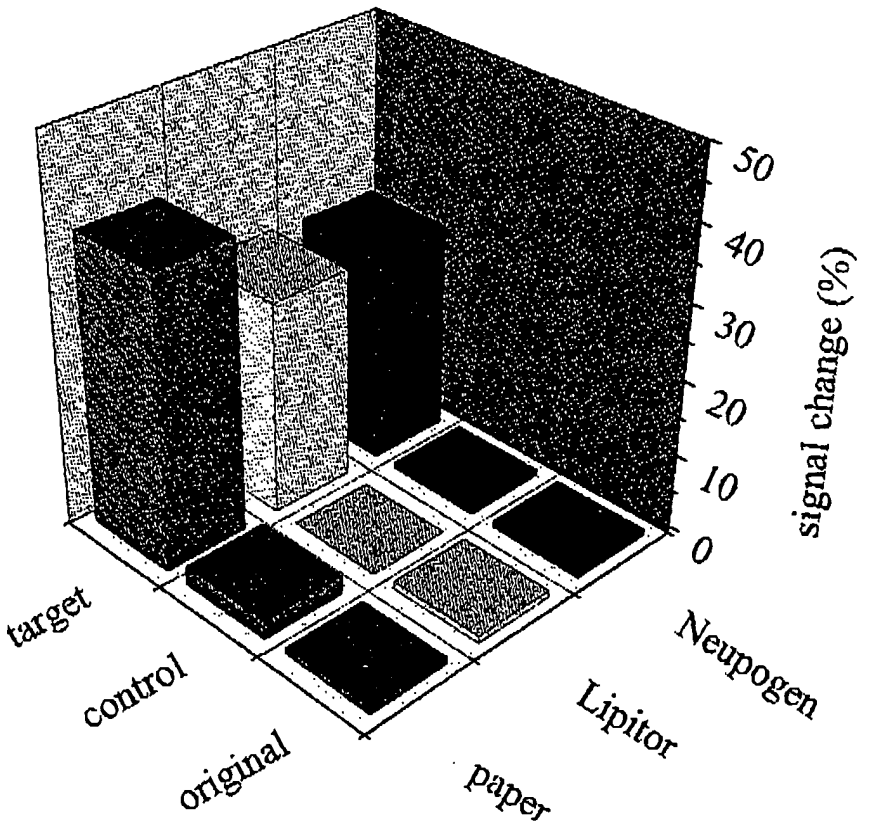
50
40
30
20
10
0
signal change (%)
target
control
original
paper
Lipitor
Neupogen

Fig 11.